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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (currently amended) A device for measuring the an appearance of an object that is based on a digital camera platform design, said device comprising:

- (a) a color sensor for capturing an image of an object and collecting appearance data from said object;
- (b) a memory storage system for saving said captured image;
- (c) a display on said device for displaying the captured image; and
- (d) a CPU internal to said device allowing interpretation and processing of said appearance data to determine appearance factors for said image.

2. (original) A device as defined in claim 1 that is a handheld device.

3. (currently amended) A device as defined in claim 1, wherein said sensor for capturing the image is selected from a group comprising of a CMOS sensor, a CCD sensor, and an X3 sensor based on the color separation properties of silicon.

4. (original) A device as defined in claim 1, wherein said display device comprises an LCD panel.

5. (original) A device as defined in claim 4, wherein said LCD panel is able to display interpretive maps of the captured image.

6. (original) A device as defined in claim 1, wherein said object is a dental object.

7. (original) A device as defined in claim 6, wherein said dental object comprises one of a crown, plate, bridge and replacement tooth.

8. (original) A device as defined in claim 1, further comprising a microphone to record voice information to describe and/or annotate the captured image of the object.

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9. (original) A device as defined in claim 8, wherein said CPU processor links said captured image of the object with said recorded voice information describing and/or annotating said captured image of the object.

10. (original) A device as defined in Claim 1 further comprising a keypad for inputting textual information about the image of the object.

11. (currently amended) A device as defined in Claim 1011 wherein said CPU processor links said inputted-textual information with said image of the object.

12. (original) A device as defined in Claim 9 further comprising an internal speaker to play the recorded attached voice annotations.

13. (original) A device as defined in Claim 1 further comprising a means for illuminating said object.

14. (original) A device as defined in Claim 13 wherein said illumination means comprises white light emitting diodes.

15. (currently amended) A device as defined in Claim 1 further comprising a means for altering the-an illumination pattern and depth of focus attached on the-a front portion of said device.

16. (original) A device as defined in Claim 1 wherein said CPU comprises means for connecting to and communicating with a computer network.

17. (original) A device as defined in Claim 16 wherein said computer network is the Internet.

18. (original) A device as defined in Claim 16 wherein said CPU transmits said image of said object to said computer network.

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19. (original) A device as defined in Claim 16 wherein said CPU receives software updates and enhancements from said computer network.

20. (original) A device as defined in Claim 16 wherein said CPU receives information regarding maintenance check ups and device problem diagnoses from said computer network.

21. (currently amended) A handheld MAT device as defined in Claim 2, wherein said device comprises a means for calibrating said device, said calibration means comprising one or more of:

- (a) a cradle for holding the MAT device, said cradle housing designed to accurately position ~~the-a~~ calibration target correctly for the MAT device
- (b) providing ~~the-a~~ calibration process with a sleep mode;
- (c) spatial compensation means for known and consistent spatial variations in the image;
- (d) light feedback control means using camera output to modify ~~the-a~~ light source;
- (e) means for implementing the concept of absolute color standards for inter-device communication;
- (f) process for selecting ~~the~~ reference colors of ~~the-a~~ calibration standard; and/or
- (g) means for signaling need for replacement of calibration color patch.

22. (currently amended) A device as defined in Claim 21 wherein said cradle fits over the ~~a~~ nose of said device and serves as a stand for the device.

23. (original) A device as defined in Claim 21 wherein either said device or said cradle is provided with a proximity switch for automatically starting the calibration device when the device is placed in the cradle and/or automatically stopping the calibration device when the device is removed from the cradle.

24. (currently amended) A device as defined in Claim 21 wherein said device is provided with a calibration target; said calibration target mounted in a spring loaded door located over the ~~an~~ exit of said handheld device.

25. (currently amended) A device as defined in Claim 24 further comprising an aseptic shield provided with a tongue means for pushing open said door when the shield is placed over the ~~a~~ nose of the device.

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26. (currently amended) A device as defined in Claim 24 wherein said calibration target is mounted on ~~the~~<sup>a</sup> rear of said door.

27. (original) A device as defined in Claim 24 further comprising a proximity sensor mounted in the handpiece to detect when the door is fully closed.

28. (currently amended) A device as defined in Claim 21 wherein said sleep mode comprises means for changing ~~the~~<sup>an</sup> illumination intensity if the unit has not been used for a set period of time.

29. (original) A device as defined in Claim 21 wherein calibration patch is provided with bar codes for identifying the calibration patch.

30.- 40. (cancelled)

41. (currently amended) A computer aided shade design process wherein a ~~said~~-MAT system is as defined in Claim 1.

42. – 45. (cancelled)

46. (currently amended) A computer aided dental restoration design process wherein a ~~said~~-MAT system is as defined in Claim 1.

47. – 51. (canceled)